Date: User: Monday, 02/06/2008 1:54:29 PM

Julie Lecocq \

**Process Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 39645

**Estimate Number** 

: 10921

P.O. Number

This Issue

: 02/06/2008

: NC

: // : 38220

S.O. No. :

: SMALL /MED FAB

Type

**Drawing Revision** Material

Part Number

**Drawing Number** 

**Project Number** 

**Drawing Name** 

**Due Date** 

: 03/06/2008

: B

: D2003041

: TUBE ASSEMBLY

Qtv:

5 Um:

Each

Checked & Approved By

Comment

Written By

Prsht Rev.

First Issue

**Previous Run** 

: Est: B 99.11.11 Re-format EC

**Additional Product** 

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

DOCUMENT CONTROL

1.0

2.0

3.0

DC

Comment: DOCUMENT CONTROL

type labels per PPP D2003-041

304 RD Tube .500 x .035W

Comment: Qty.:

0.5145 f(s)/Unit Total:

2.5725 f(s)

Material:1/2"Æ x 0.035" wall AISI 304 SS tubing

Firesleeve-crkl .375IDia

M26506



Material: M2650-6 Heat sleeve

2.0000 Each(s)/Unit

Sleeve

2.6250 f(s)

08-06.04

08.07.10

4.0

MS208198J

10.0000 Each(s)

Comment: Qty.: Pick:

**Qty Part Number** 

Description

Total:

2 MS20819-8J

Sleeve

08-06-04

5.0

AN8188J

Comment: Qty.: 2.0000 Each(s)/Unit Total:

10.0000 Each(s)

Pick:

**Qtv Part Number** 

Description

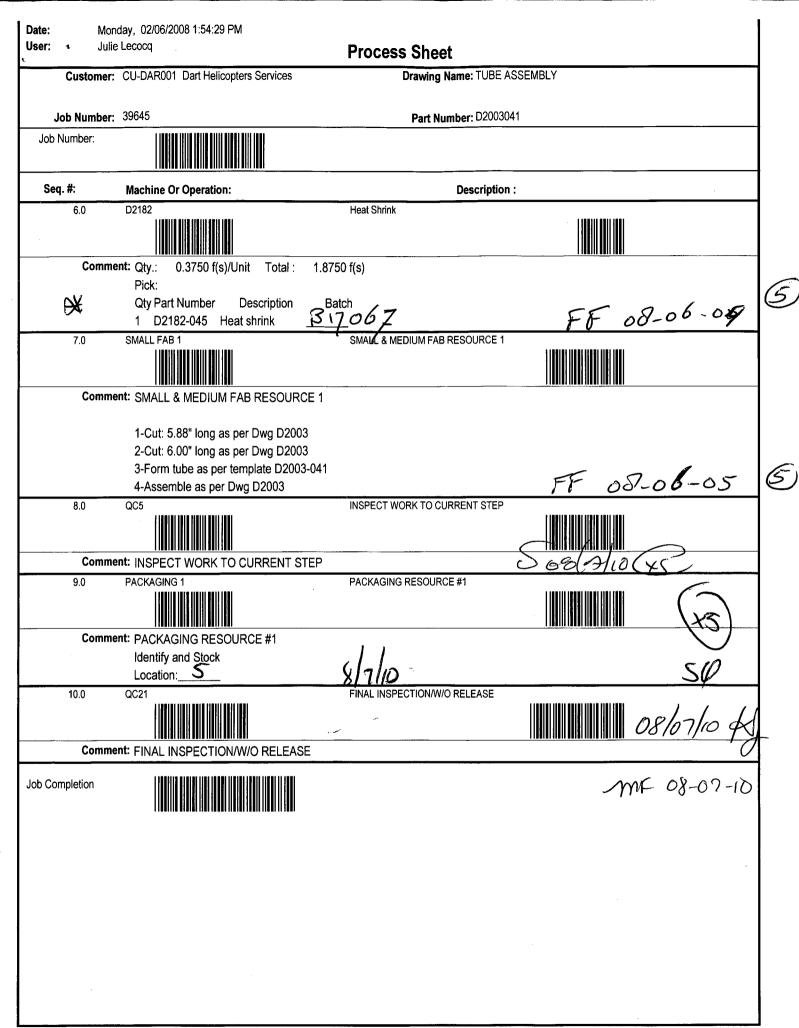
2 AN818-8J Nut

FF. 00-06-04

<b>W</b> /O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	ı	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C	Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B	Verification	Approval	Approval						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector					
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W/O:		WORK ORDER CHA	NGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #: Fault Category:	NCR: Yes	No DO	۸٠	Date:	

Part No:	PAR #:	Fault Category:	NCR: Yes	No	DQA:	Date:
			QA: N	I/C CI	osed:	Date:

NCR:			WORK ORD	ER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B	• • • • • • • • • • • • • • • • • • • •	Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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DESIG	4	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED	APPROVED	DRAWING NO. REV. B
1	10	1 44	D2003 SHEET 1 OF 2
DATE	,		TITLE SCALE
99.0	06.08		206 CABIN HEATER TUBE ASSEMBLIES NTS
A		90.04.09	NEW ISSUE
В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)

RELEASED 49.06.03 KE

UNDER REVIEW

308.06.02

	<del></del>			~~~			_	_				
. P/N	TEMPLATE	HEATSLEEVE LENGTH	CUT LENGTH OF TUBE <sup>2</sup>	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC	MATERIAL <sup>4/8/7</sup>	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00	i				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0,375 OD x 0,035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12,38	12.44					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2	- 1				TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AiSi 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2	i.	06	57.1	0	TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2	X				TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25					1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0								HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0		-						HEATSLEEVE	M2650-16 CRINKLE-SOFTS	
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W g	
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W <sub>2x</sub>	9/00/F
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WORK ORDER

W/O:		WORK ORDER CHA	WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
Part No	•	PAR #: Fault Category:	NCR: Yes	No DQ	<b>A</b> :	Date:								

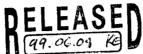
QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

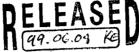
NCR:			WORK ORD	ER NON-CONFORMAN	CE (NCR)						
<del></del>		Description of NC		Corrective Action Section B		Verification	Annewal	Amproval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			
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DESIGN	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CANA	
CHECKED .	APAROVED	DRAWING NO.	REV. B
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DATE	·	TITLE	SCALE
99.06.08		206 CABIN HEATER TUBE ASSI	EMBLIES NTS

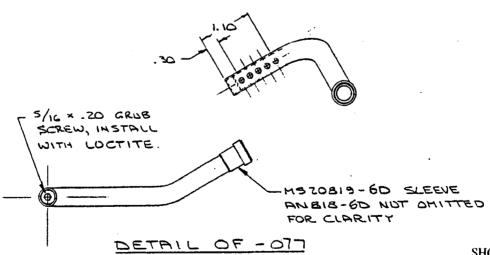






#### Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.



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	WORK ORDER CHANGES											
STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
						<u> </u>						
		STEP PROCEDURE CHANGE	STEP PROCEDURE CHANGE By	STEP PROCEDURE CHANGE By Date	STEP PROCEDURE CHANGE By Date Qty	STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr						

Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
	*			QA: N/C	Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
DATE STEP	<b>Description of NC</b> Section A		Corrective Action Section B	Verification	Approval	Approval							
		Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector						
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